Your data's showing: Implementing the new Tri-Agency Research Data Management Policy

Open Science @ Concordia

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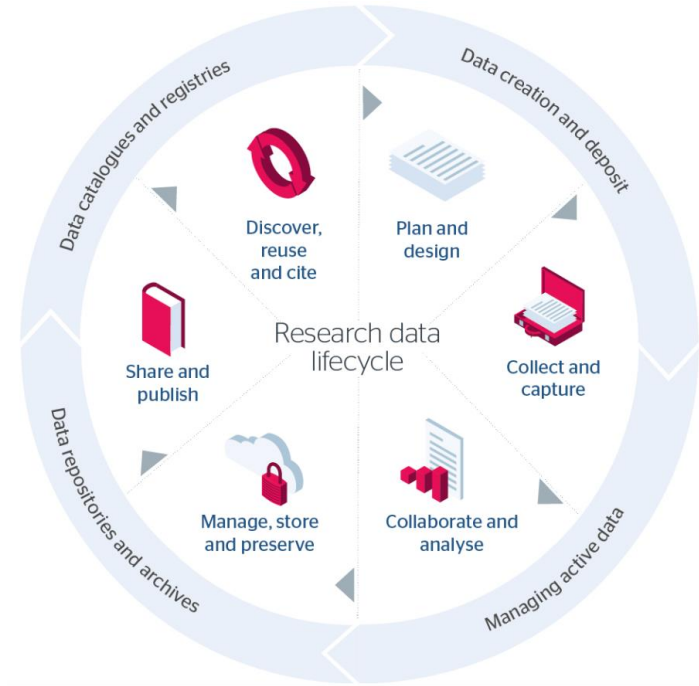# What is Research Data Management (RDM)?

What is RDM?

Research data management is a general term covering how you organize, structure, store, and care for the information used or generated during a research project. It includes…

What is RDM?

- **Planning** how your data will be looked after
- How you deal with information on a **day-to-day** basis over the lifetime of a project
- What happens to data in the **longer term** – what you do with it after the project concludes

https://rdmtoolkit.jisc.ac.uk/research-data-lifecycle/

https://researchdata.ox.ac.uk/home/introduction-to-rdm/

Tri-Agency Research Data Management Policy

Tri-Agency RDM policy

"The objective of this policy is to support Canadian research excellence by promoting sound RDM and data stewardship practices. This policy is not an open data policy."

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Tri-Agency Research Data Management Policy

1. Preamble

The Canadian Institutes of Health Research (CIHR), the Natural Sciences and Engineering Research Council of Canada (NSERC), and the Social Sciences and Humanities Research Council of Canada (SSHRC) (the agencies) are federal granting agencies that promote and support research, research training, knowledge transfer and innovation within Canada.

The agencies expect the research they fund to be conducted to the highest professional and disciplinary standards, domestically and internationally. These standards support research excellence by ensuring that research is performed ethically and makes good use of public funds, experiments and

http://www.science.gc.ca/eic/site/063.nsf/eng/h_97610.html

Tri-Agency RDM policy

Tri-Agency Research Data Management Policy:

- Institutional strategy
- Data management plans
- Data deposit

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Home > Interagency research funding > Policies and Guidelines > Research Data Management

Tri-Agency Research Data Management Policy

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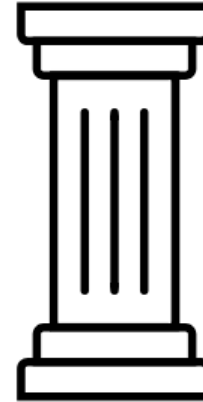
Data management plans

Tri-Agency RDM policy

Data Management Plans:

« All grant proposals submitted to the agencies should include methodologies that reflect best practices in RDM. For certain funding opportunities, the agencies will require data management plans (DMPs) »
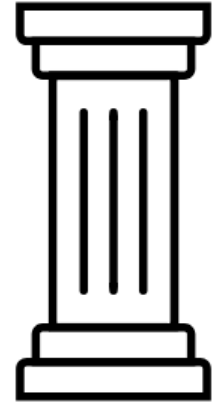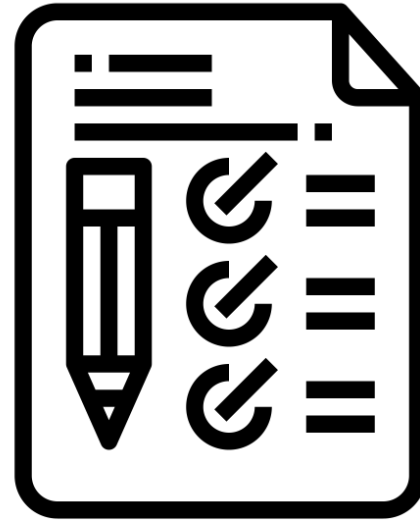
Institutional strategy
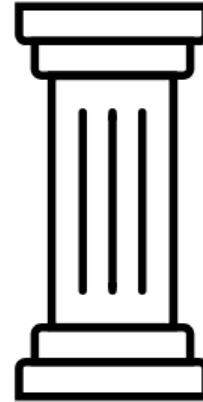
Data management plans

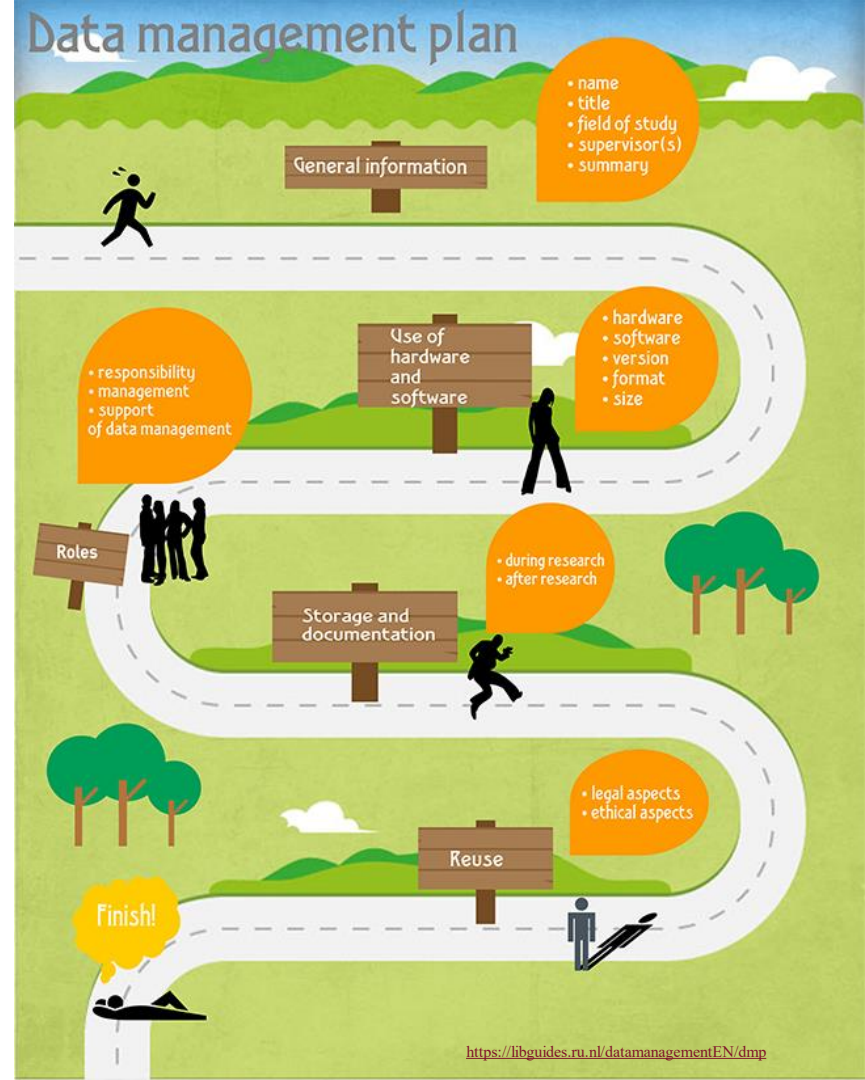Data deposit

Tri-Agency RDM policy

Implementation date:

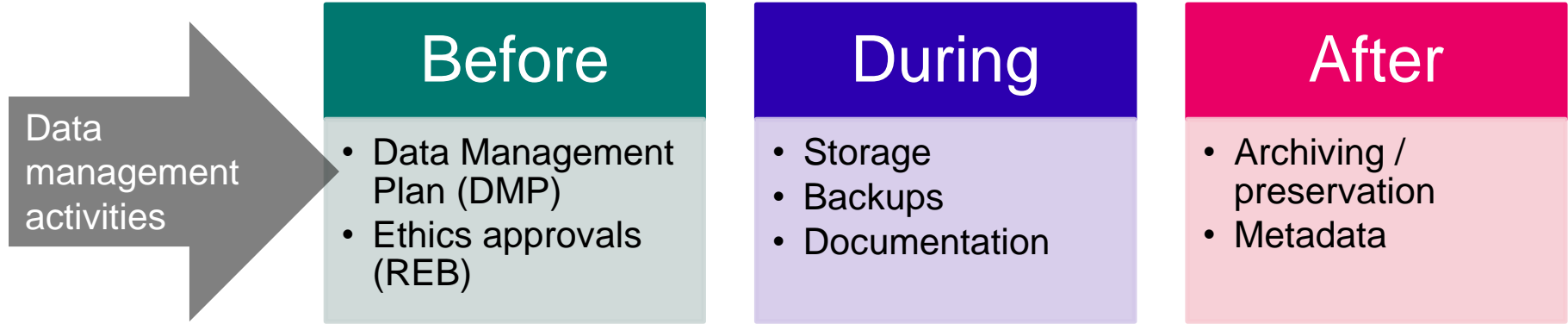**Spring 2022**, Tri-Agency will identify *initial set* of funding opportunities subject to the DMP requirement.

What is a DMP?

- Formal document
- Outlines what you will do with your data **during** and **after** you complete your research
- Ensures your data is safe for the **present** and the **future**

DataONE, 2016, Lesson 03: Data Management Planning, https://old.dataone.org/education-modules

Data management in the research workflow

Data management activities →

Before	During	After
• Data Management Plan (DMP) • Ethics approvals (REB)	• Storage • Backups • Documentation	• Archiving / preservation • Metadata

Data management in the research workflow

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Open science activities		
• Planning for open (e.g. including data sharing in consent forms)	• Open source tools • Transparent methods/protocols (eg. protocols.io)	• Sharing data • Assigning PIDs • Publishing research openly (OA)

Borghi & Van Gulick (2021). Promoting Open Science Through Research Data Management. https://doi.org/10.48550/arXiv.2110.00888

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Tool to help write a DMP

DMP Assistant:

- Free Canadian online tool for creating DMPs

- Generic DMP template with 20 questions

- 12 discipline specific templates

https://assistant.portagenetwork.ca/

Data deposit

Tri-Agency RDM policy

Data deposit:

« Grant recipients are required to deposit into a recognized digital repository all digital research data, metadata and code that directly support research conclusions that arise from agency-supported research. »
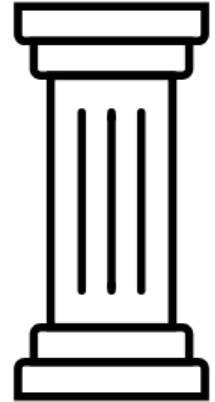
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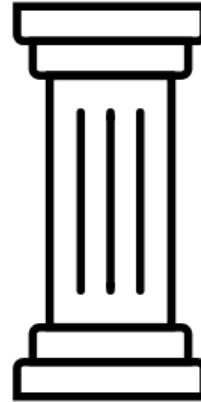
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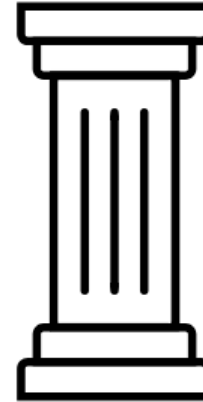
Data deposit

Tri-Agency RDM policy

Grant recipients are **not required to share their data**.

However, the agencies expect researchers to **provide appropriate access to the data where ethical, cultural, legal and commercial requirements allow.**

Tri-Agency RDM policy

As open as possible
As closed as necessary

Tri-Agency RDM policy

Implementation date:

After March 2023:
Data deposits will be phased in only after the Tri-Agency reviews each institution's RDM strategy (pillar 1) and assesses the Canadian research community's readiness.
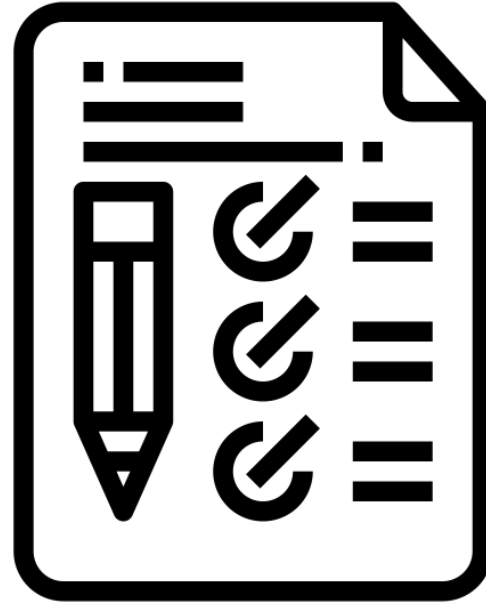
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NSERC Merit review process

Forms of contributions to research:

- Creation, curation, sharing or reuse of datasets

Assessment of quality of contributions to research

- Transparency and accessibility of results and appropriate data stewardship (including, where appropriate, open science…)

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Where to share data

Concordia Dataverse

- Concordia data repository available for free (through BCI) to all Concordia researchers
- Support from the Library
- Useful for small to medium sized datasets (files ≤ 3GB)
- Data hosted on Canadian servers

Federated Research Data Repository

Find data
- Indexes many Canadian repositories

Deposit data
- Secure data deposit for Canadian research data

https://www.frdr.ca/repo/

Questions?

Thank you!

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